HS 800 Digital

Aviation Headset

Audio box

Case

Features

- Outstanding ambient noise attenuation due to Digital Adaptive Noise Reduction (DANR)
- Ear pads with extra soft leather cover and viscoelastic filling
- Audio box to connect mobile phones, music players or iPhones (supplied with 3 connecting cables)
- Automatic volume reduction of phone or music player when signals from the intercom occur (selectable function)
- Mono/Stereo selection switch
- Noise-compensated microphone with adjustable gain
- Integrated dual volume control
- Power status LED
- Ear cups in carbon design with metal bezels
- Rugged headband design made of spring steel
- Light weight of approx. 325 g (without cable)
- Modular construction for easy servicing
- Five-year warranty
- Made in Germany

Applications

The HS 800 Digital is a closed-back aviation headset. The innovative DANR system (Digital Adaptive Noise Reduction) provides an extraordinary effective active ambient noise attenuation. The headphone features a very high reproduction precision and a balanced sound. Another special feature is the wide frequency response of 5 - 30,000 Hz.

The soft, circumaural leather ear pads filled with viscoelastic foam and the adjustable padded headband provide a high comfort. The microphone with adjustable gain can be optimally positioned with the flexible gooseneck. The figure eight polar pattern ensures a high gain before feedback and noise cancellation. The rotating microphone holder allows positioning the microphone on the right or left hand side.

The connecting cable is single-sided. There are various versions with different connecting cables (e.g. 1/4" (6.35 mm) and PJ-068 jack, U-174/U jack or 6-pin Lemo connector). The connecting cable provides an audio box to adjust the volume of the headphone and to connect a mobile phone, music player (e.g. CD or MP3 player) or iPhone. If signals from the intercom occur, the volume of the mobile phone or music player can be reduced automatically. This auto mute function can be deactivated.

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HS 800 Digital

Versions

HS 800 Digital	Aviation headset with 1/4" (6.35 mm) and PJ-068 jack plugs . . . . . Order # 722.251
HS 800 Digital Rotor	Aviation headset with U-174/U jack plug, coiled cable . . . . . Order # 722.502
HS 800 Digital 6pin	Aviation headset with 6-pin Lemo connector . . Order # 722.499

Spare Parts

BN 59-74/A	Headband pad, black, leather . . . . . Order # 908.541
EDT 800 LS	Ear pads, leather, black, viscoelastic . . . . . Order # 908.614
WS 20 sw	Wind shield, black . . . . . Order # 439.975

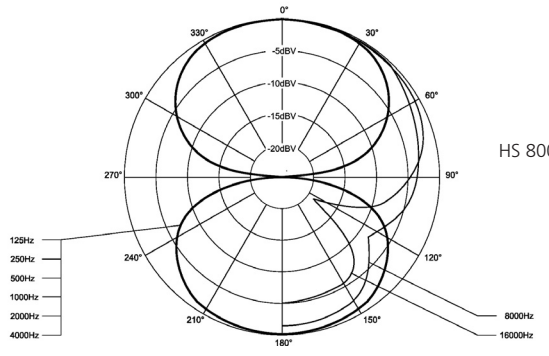
Supplied Accessories

- Padded case
- Wind shield for the microphone
- 2 AA batteries (HS 800 Digital and HS 800 Digital Rotor only)
- Connecting cable for mobile phones
- Connecting cable for iPhones
- Connecting cable for portable music players such as CD or MP3 players
- Connecting cable for external power supply (HS 800 Digital only)
- 3-pin XLR socket for installation into the aircraft for the external power supply of the audio box (HS 800 Digital only)

Customised versions may include different accessories.

Frequency Response & Polar Pattern

This frequency response curve (measuring tolerance ± 2.5 dB) and polar pattern correspond to a typical production sample for this microphone.



HS 800 (Mic)

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HS 800 Digital

Technical Specifications

Headphone

Transducer type	Dynamic
Operating principle	Closed
Frequency response	5 - 30,000 Hz
Nominal impedance mono/stereo	210 Ω / 270 Ω
Nominal SPL	95 dB SPL
T.H.D.	< 0.2%
Power handling capacity	100 mW
Sound coupling to ear	Circumaural
Nominal headband pressure	6.5 N

Microphone

Transducer type	Condenser (back electret)
Frequency response	400 - 15,000 Hz
Polar pattern	Figure eight
Output voltage at 114 dB	70 mV - 900 mV, adjustable
Max. SPL	120 dB
Nominal impedance	approx. 350 Ω
Current consumption	approx. 6 - 18 mA
Supply voltage	typ. 16 V DC (8 - 16 V DC, acc. to RTCA/DO 214)

General

Weight without cable / audio box	approx. 325 g (0.72 lb)

HS 800 Digital

Cable	approx. 1.80 m (70.87"), straight cable
Connection	
Headphone	1/4" stereo jack plug (6.35 mm)
Microphone	PJ-068 jack plug
Power supply audio box	2 x 1.5 V AA batteries or rechargable batteries, alternatively 12 - 36 V DC from aircraft system via 3-pin XLR connector
Current consumption	approx. 70 mA (when powered by batteries or rechargeable batteries) max. 30 mA (when powered via on-board power supply system)
Operating time DANR	approx. 25 hrs. when powered by batteries or rechargeable batteries
Music player / mobile telephone	Mini jack socket (3.5 mm)

HS 800 Digital Rotor

Cable	Coiled cable
Connection	
Headphone, microphone	U-174/U jack plug
Power supply audio box	2 x 1.5 V AA batteries or rechargable batteries
Current consumption	approx. 70 mA (when powered by batteries or rechargeable batteries)
Operating time DANR	approx. 25 hrs. when powered by batteries or rechargeable batteries
Music player / mobile telephone	Mini jack socket (3.5 mm)

HS 800 Digital 6pin

Cable	approx. 1.80 m (70.87"), straight cable
Connection	
Headphone, microphone	6-pin Lemo connector
Power supply audio box	12 - 36 V DC from aircraft system via 6-pin Lemo connector
Current consumption	max. 30 mA
Music player / mobile telephone	Mini jack socket (3.5 mm)

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